

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/010, 729A
Source: IFW16
Date Processed by STIC: 09/26/2005

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 09/26/2005

PATENT APPLICATION: US/10/010,729A

TIME: 10:00:00

Input Set : A:\1199-1-005CIP2 -SEQLIST.TXT

Output Set: N:\CRF4\09262005\J010729A.raw

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4 <110> APPLICANT: Rodriguez, Moses
5     Miller, David J.
6     Pease, Larry R.
8 <120> TITLE OF INVENTION: Human IgM Antibodies and Diagnostic and
9     Therapeutic Uses Thereof Particularly in the Central Nervous
10    System
12 <130> FILE REFERENCE: 1199-1-005CIP2
14 <140> CURRENT APPLICATION NUMBER: 10/010,729A
15 <141> CURRENT FILING DATE: 2001-11-13
17 <150> PRIOR APPLICATION NUMBER: 09/730,473
18 <151> PRIOR FILING DATE: 2000-12-05
20 <150> PRIOR APPLICATION NUMBER: 09/580,787
21 <151> PRIOR FILING DATE: 2000-05-30
23 <150> PRIOR APPLICATION NUMBER: 09/322,862
24 <151> PRIOR FILING DATE: 1999-05-28
26 <150> PRIOR APPLICATION NUMBER: 08/779,784
27 <151> PRIOR FILING DATE: 1997-01-07
29 <150> PRIOR APPLICATION NUMBER: 08/692,084
30 <151> PRIOR FILING DATE: 1996-08-08
32 <150> PRIOR APPLICATION NUMBER: 08/236,520
33 <151> PRIOR FILING DATE: 1994-04-29
35 <160> NUMBER OF SEQ ID NOS: 80
37 <170> SOFTWARE: FastSEQ for Windows Version 4.0
39 <210> SEQ ID NO: 1
40 <211> LENGTH: 420
41 <212> TYPE: DNA
42 <213> ORGANISM: Mus musculus
44 <400> SEQUENCE: 1
45 atgggatgga gatggatctt tcttttcttc ctgtcaggaa ctgcaggtgt ccattgccag 60
46 gttcagctgc agcagctctg acctgagctg gtgaagcctg gggctttagt gaagatatcc 120
47 tgcaaggctt ctggttacac cttcacaaagc tacgatataa actgggtgaa gcagaggcct 180
48 ggacagggac ttgagtggat tggatggatt tatcctggag atggtagtac taagtacaat 240
49 gagaaattca agggcaaggc cacactgact gcagacaaat cctccagcac agcctacatg 300
50 cagctcagca gcctgacttc tgagaactct gcagtctatt tctgtgcaag aggggccagg 360
51 ttctactggt acttcgatgt ctggggcgca gggaccacgg tcaccgtctc ctgagagagt 420
54 <210> SEQ ID NO: 2
55 <211> LENGTH: 395
56 <212> TYPE: DNA
57 <213> ORGANISM: Mus musculus
59 <400> SEQUENCE: 2
60 atggctgtct tggggctgct cttctgcctg gtgacattcc caagctgtgt cctatcccag 60
61 gtgcagctga agcagtcagg acctggccta gtgcagcct cacagagcct gtccatcacc 120
62 tgcacagtct ctggtttctc attaactagc tatggtgtac actgggttcg ccagtctcca 180

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63 ggaaaggggtc tggagtggct gggagtgata tggagtgggtg gaagcacaga ctataatgca 240
64 gctttcatat ccagactgag catcagcaag gacgcttcca agagccaagt tttctttaaa 300
65 atgaacagtc tgcacgtac atatattatt gtgccagaga ctacggtagt aggggggact 360
66 actgggggtca aggaacctca gtcaccgtct cctca 395
68 <210> SEQ ID NO: 3
69 <211> LENGTH: 423
70 <212> TYPE: DNA
71 <213> ORGANISM: Mus musculus
73 <400> SEQUENCE: 3
74 atgaagttgt ggttaaactg ggtttttctt ttaacacttt tacatgggtat ccagtgtgag 60
75 gtgaagctgg tggaatctgg tggaggcctg gtacagcctg ggggttctct gagactctcc 120
76 tgtgcaactt ctgggttcac cttcagtgtat ttctacatgg agtgggtccg ccagcctcca 180
77 gggaagagac tggagtggat tgctgcaagt agaaagaaag ctaatgatta taaaacagag 240
78 tacagtgcac ctgtgaaggg gcggttcacc gtctccagag acacttccca aagcatcctc 300
79 taccttcaga tgaatgccct gagagatgag gacactgccca ttattactg tgcaagagat 360
80 gcacggcagc tcgggctccc gtttgcttac tggggccaag ggactctggt cactgtctct 420
81 gca 423
83 <210> SEQ ID NO: 4
84 <211> LENGTH: 384
85 <212> TYPE: DNA
86 <213> ORGANISM: Mus musculus
88 <400> SEQUENCE: 4
89 atggaatcac agactctggt ctccatatcc atactgctct gggttatatgg agctgatggg 60
90 aacattgtaa tgacccaatc tcccaaatcc atgtccatgt cagtaggaga gagggtcacc 120
91 ttgacctgca aggccagtga gaatgtgggt acttatgttt cctgggtatca acagaaacca 180
92 gagcagtctc ctaaactgct gatatacggg gcatccaacc ggtacactgg ggtccccgat 240
93 cgcttcacag gcagtggatc tgcaacagat ttcactctga ccatcagcag tgtgcaggct 300
94 gaagaccttg cagattatca ctgtggacag gggttacagct atccgtacac gttccgaggg 360
95 gggaccaagc tggaaataaa acgg 384
97 <210> SEQ ID NO: 5
98 <211> LENGTH: 402
99 <212> TYPE: DNA
100 <213> ORGANISM: Mus musculus
102 <400> SEQUENCE: 5
103 atggacatga gggctcctgc acagattttt ggcttcttgt tgetcttgtt tcaaggtacc 60
104 agatgtgaca tccagatgac ccagtctcca tctccttat ctgcctctct gggagaaaga 120
105 gtcagtctca ctgtcgggc aagtcaggac attggtagta gcttaaactg gcttcagcag 180
106 gaaccagatg gaactattaa acgcctgac tacgccacat ccagtttaga ttctgggtgtg 240
107 cccaaaagggt tcagtggcag taggtctggg tcagattatt ctctcaccat cagcagcctt 300
108 gagtctgaag attttgtaga ctattactgt ctacaatatg ctagttctcc gtacacgttc 360
109 ggagggggga ccaagctgga aataaaacgg gctgatgctt ca 402
111 <210> SEQ ID NO: 6
112 <211> LENGTH: 396
113 <212> TYPE: DNA
114 <213> ORGANISM: Mus musculus
116 <400> SEQUENCE: 6
117 atggagtcaac agattcagggt ctttgtattc gtgtttctct ggttgtctgg tgttgacgga 60
118 gacattgtga tgaccagtc tcacaaatc atgtccactt cagtaggaga cagggtcagc 120
119 atcacctgca aggccagtca ggatgtgagt actgctgtag cctgggtatca acagaaacca 180

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120 ggacaatctc ctaaactact gatttactcg gcacccctacc ggtacactgg agtccctgat 240
121 cgcttcactg gcagtggatc tgggacggat ttcactttca ccatcagcag tgtgcaggct 300
122 gaagacctgg cagtttatta ctgtcagcaa cattatacta ctccgctcac gttcgggtgt 360
123 gggaccaggc tggagctgaa acgggctgat gcttca 396
125 <210> SEQ ID NO: 7
126 <211> LENGTH: 119
127 <212> TYPE: PRT
128 <213> ORGANISM: Homo sapiens
130 <220> FEATURE:
131 <221> NAME/KEY: VARIANT
132 <222> LOCATION: (50)...(50)
133 <223> OTHER INFORMATION: Xaa can be Val or Ile
135 <221> NAME/KEY: VARIANT
136 <222> LOCATION: (89)...(89)
137 <223> OTHER INFORMATION: Xaa can be Asp or Glu
W--> 139 <400> 7
140 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
141 1 5 10 15
142 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Ser
143 20 25 30
144 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
145 35 40 45
W--> 146 Ala Xaa Ile Ser Tyr Asp Gly Ser Arg Lys Tyr Tyr Ala Asp Ser Val
147 50 55 60
148 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
149 65 70 75 80
150 Leu Gln Met Asn Ser Leu Thr Ala Xaa Asp Thr Ala Val Tyr Tyr Cys
151 85 90 95
152 Ala Lys Gly Val Thr Gly Ser Pro Thr Leu Asp Tyr Trp Gly Gln Gly
153 100 105 110
154 Thr Leu Val Thr Val Ser Ser
155 115
158 <210> SEQ ID NO: 8
159 <211> LENGTH: 357
160 <212> TYPE: DNA
161 <213> ORGANISM: Homo sapiens
163 <220> FEATURE:
164 <221> NAME/KEY: variation
165 <222> LOCATION: (27)...(27)
166 <223> OTHER INFORMATION: n is a or g
168 <221> NAME/KEY: variation
169 <222> LOCATION: (117)...(117)
170 <223> OTHER INFORMATION: n is g or a
W--> 172 <400> 8
W--> 173 cagggtgcagc tgggtggagtc tgggggnggc gtgggtccagc ctggggaggtc cctgagactc 60
174 tcctgtgcag cctctggatt caccttcagt agctctggca tgcactgggt ccgccangct 120
175 ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaagtaa taaatactat 180
176 gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
177 ctgcaaatga acagcctgag agctgaggac acggctgtgt attactgtgc gaaagagggtg 300

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178 actgctattc cctactttga ctactggggc cagggaaacc tggtcaccgt ctctca      357
180 <210> SEQ ID NO: 9
181 <211> LENGTH: 114
182 <212> TYPE: PRT
183 <213> ORGANISM: Homo sapiens
185 <220> FEATURE:
186 <221> NAME/KEY: VARIANT
187 <222> LOCATION: (46)...(46)
188 <223> OTHER INFORMATION: Xaa is Arg or Lys
190 <221> NAME/KEY: VARIANT
191 <222> LOCATION: (90)...(90)
192 <223> OTHER INFORMATION: Xaa is Gly or Glu
W--> 194 <400> 9
195 Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln
196 1 5 10 15
197 Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
198 20 25 30
W--> 199 Phe Val Ser Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Xaa Leu Leu
200 35 40 45
201 Ile Tyr Asp Ile Thr Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser
202 50 55 60
203 Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln
204 65 70 75 80
205 Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Xaa Thr Trp Asp Ser Ser Leu
206 85 90 95
207 Ser Ala Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
208 100 105 110
209 Pro Lys
213 <210> SEQ ID NO: 10
214 <211> LENGTH: 342
215 <212> TYPE: DNA
216 <213> ORGANISM: Homo sapiens
218 <220> FEATURE:
219 <221> NAME/KEY: variation
220 <222> LOCATION: (137)...(137)
221 <223> OTHER INFORMATION: n is g or a
223 <221> NAME/KEY: variation
224 <222> LOCATION: (269)...(269)
225 <223> OTHER INFORMATION: n is g or a
W--> 227 <400> 10
228 cagtctgtgt tgacggagcc gccttcagtg tctgctgccc caggacagaa ggtcaccatc 60
229 tctgctctg gaagcagctc caacattggc aataattttg tctcctggta ccagcaactc 120
W--> 230 ccaggaacag ccccanact cctcatttat gacattacta agcgaccctc agggattcct 180
231 gaccgattct ctggctccaa gtctggcagc tcagccaccc tgggcatcac cggactccag 240
232 actggggacg aggccgatta ttactgcgna acatgggata gcagcctgag tgctgtggta 300
233 ttcgggcggg ggaccaagct gaccgtccta ggtcagccca ag 342
235 <210> SEQ ID NO: 11
236 <211> LENGTH: 121
237 <212> TYPE: PRT

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Output Set: N:\CRF4\09262005\J010729A.raw

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238 <213> ORGANISM: Homo sapiens
240 <400> SEQUENCE: 11
241 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
242 1 5 10 15
243 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Tyr
244 20 25 30
245 Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
246 35 40 45
247 Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys
248 50 55 60
249 Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
250 65 70 75 80
251 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala
252 85 90 95
253 Arg Ser Ala Gln Gln Leu Val Tyr Phe Asp Tyr Trp Gly Gln
254 100 105 110
255 Gly Thr Leu Val Thr Val Ser Ser Gly
256 115 120
259 <210> SEQ ID NO: 12
260 <211> LENGTH: 370
261 <212> TYPE: DNA
262 <213> ORGANISM: Homo sapiens
264 <400> SEQUENCE: 12
265 caggtgcagc tgcaggagtc gggcccagga ctggtgaagc cttcggagac cctgtccctc 60
266 acctgcactg tctctggtgg ctccatcagt agttactact ggagctggat ccggcagccc 120
267 ccagggaagg gactggagtg gattgggtat atctattaca gtgggagcac caactacaac 180
268 ccctccctca agagtcgagt caccatatca gtagacacgt ccaagaacab ccagttctcc 240
269 ctgaagctga gctctgtgac cgctgcgagc acggccabcg tgtattactg tgcgaggtcg 300
270 gcacagcagc agctggtata ctacdtttga ctactggggc cagggaaacc tggtcaccgt 360
271 ctcctcaggg 370
273 <210> SEQ ID NO: 13
274 <211> LENGTH: 119
275 <212> TYPE: PRT
276 <213> ORGANISM: Homo sapiens
278 <400> SEQUENCE: 13
279 Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
280 1 5 10 15
281 Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
282 20 25 30
283 Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
284 35 40 45
285 Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
286 50 55 60
287 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
288 65 70 75 80
289 Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
290 85 90 95
291 Tyr Tyr Ser Thr Pro Leu Thr Phe Gly Pro Gly Thr Lys Val Asp Ile
292 100 105 110

```

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; Xaa Pos. 50,69

Seq#:8; N Pos. 27,117

Seq#:9; Xaa Pos. 46,80

Seq#:10; N Pos. 137,269

VERIFICATION SUMMARY

DATE: 09/26/2005

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Input Set : A:\1199-1-005CIP2 -SEQLIST.TXT

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L:139 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:48
M:341 Repeated in SeqNo=7
L:172 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:194 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:32
M:341 Repeated in SeqNo=9
L:227 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:120
M:341 Repeated in SeqNo=10
L:994 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:53
L:1431 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (80) SEQUENCE: